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| Newton’s first law  Law of inertia | Every object in a state of uniform motion tends to remain in that state of motion unless an external force is applied to it. | [http://t0.gstatic.com/images?q=tbn:ANd9GcQ5WsQcbyO2OkA83oxKINSKOvY-8HsTp_FhxlytE3jKQRWESioxEIF_oBx_](http://www.google.com/imgres?imgurl=http://808trainingcenter.com/brianne_newton_s_first_law.jpg&imgrefurl=http://nwcustomgifts.com/migraines-sample-of-picture-of-newtons-first-laws-of-motion/&usg=__x7-u7pabcJU1QHWq3HgYRLvUdFw=&h=400&w=600&sz=91&hl=en&start=9&zoom=1&um=1&itbs=1&tbnid=YwOUBmCRAziVrM:&tbnh=90&tbnw=135&prev=/images%3Fq%3Dnewton%2527s%2Bfirst%2Blaw%26um%3D1%26hl%3Den%26safe%3Dactive%26tbm%3Disch&ei=K7ylTei1ObGN0QH_6_zICA) |
| Newton’s second law  Law of acceleration | **The relationship between an object's mass m, its acceleration a, and the applied force F is F = ma. Acceleration and force are vectors in this law the direction of the force vector are the same as the direction of the acceleration vector.** | [http://t3.gstatic.com/images?q=tbn:ANd9GcRXj4wBfjOaa0F4rY1TO6ezbtE1nYesoum5RptL_sgA19fmciILXzFt64g](http://www.google.com/imgres?imgurl=http://teachertech.rice.edu/Participants/louviere/Newton/law2.jpg&imgrefurl=http://teachertech.rice.edu/Participants/louviere/Newton/law2.html&usg=__o4637LTMNfYVHT-ThudVJt70WuU=&h=216&w=419&sz=12&hl=en&start=1&zoom=1&um=1&itbs=1&tbnid=K8XDaSkXM73zBM:&tbnh=64&tbnw=125&prev=/images%3Fq%3Dnewton%2527ssecond%2Blaw%26um%3D1%26hl%3Den%26safe%3Dactive%26tbm%3Disch&ei=bbylTfCPHdOI0QHh8PHgCA) |
| Newton’s third law  Law of action reaction | **For every action there is an equal and opposite reaction.** | [http://t0.gstatic.com/images?q=tbn:ANd9GcS3nWfmy68p2ZLWgyoEXrJIJDIceDApMn6CEC5mY352vuE6YSqHgUKqLFcT](http://www.google.com/imgres?imgurl=http://lasp.colorado.edu/~bagenal/1010/graphics/rocket_3rdlawa.gif&imgrefurl=http://lasp.colorado.edu/~bagenal/1010/SESSIONS/7.UniversalMotions.html&usg=__o4jO6nxdubY3CwFlawKMLb3lExQ=&h=492&w=362&sz=7&hl=en&start=36&zoom=1&um=1&itbs=1&tbnid=udkQccFpwdCoEM:&tbnh=130&tbnw=96&prev=/images%3Fq%3Dnewton%2527s%2Bthird%2Blaw%26start%3D20%26um%3D1%26hl%3Den%26safe%3Dactive%26sa%3DN%26ndsp%3D20%26tbm%3Disch&ei=1rylTfWHO-600QG-kPHPCA) |